



## LET THERE BE DAYLIGHT

A focus on sustainability was at the core of every design decision for the new Lion Nathan facility, including ways of incorporating natural light into the buildings. The Solatube Daylighting System is one solution, but even that was not a straightforward process.

HomeTech Solatube worked with Beca engineers and with main contractor Mainzeal to provide a solution tailored to the Lion Nathan site.

Mike Cullen, national trade manager says, "The job threw up a couple of challenges, not least of which was having to manoeuvre around the mechanical plant located centrally in the ceiling void. This required two 90° turns in the light shaft in order to place the diffuser in the centre of the corridor."

Variance in the clear space above the corridor meant the Spectralight Infinity tubing ranges from 3.2m to 4.6m. Despite these quirks, the Solatube 290DS Daylighting System was well suited to the application.

"The effective daylight capture surface (EDCS) of the 290DS system is an impressive 1.8m<sup>2</sup>. This light is then reflected and diffused along the entire length of the tubing, before being filtered through the diffuser and out into room below," says Cullen.

"The 350mm Spectralight Infinity tubing has 99.7% spectral reflectivity, when coupled with the OptiView diffuser, we were able to record a 600 lux reading at midday – brighter than standard office lighting. The system also carries an R-value of 0.41, minimising solar heat gain and temperature loss."

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